

IN THE CLAIMS

Applicants here present all claims, including the status of each claim in the application, and amendments thereto as indicated by the following:

Claims 1-71 (cancelled).

72. (new) A composition comprising:

(a) a polymeric liquid; and

(b) a viscosity modifier comprising a solid material active in lowering the viscosity of the polymeric liquid, the solid material being at a concentration of less than about 2% by weight of the composition and with particle sizes milled to less than about 75 microns equivalent spherical diameter and an amorphous content of greater than about 93% by weight, the solid material lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid.

73. (new) A composition comprising:

a) a polymeric liquid selected from the group consisting of a thermoset polymeric liquid and a thermoplastic vulcanizate polymeric liquid; and

(b) a viscosity modifier including a solid material active in lowering the viscosity of the polymeric liquid, the solid material being at a concentration of less than about 2% by weight of the composition and with particle sizes milled to less than about 75 microns equivalent spherical diameter, the solid material lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid.

74. (new) A composition comprising:

(a) a polymeric liquid; and

(b) a viscosity modifier comprising a solid material active in lowering the viscosity of the polymeric liquid, the solid material at a concentration of less than about 2% by weight of the composition and with particle sizes milled to less than about 75 microns equivalent spherical diameter, but excluding a viscosity modifier consisting of a preparation of naturally occurring aluminosilicate, the solid material lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid.

75. (new) A composition comprising:

a) a polymeric liquid selected from the group consisting of a thermoset polymeric liquid and a thermoplastic vulcanizate polymeric liquid; and

(b) a viscosity modifier including a solid material active in lowering the viscosity of the polymeric liquid, the solid material being at a concentration of less than about 2% by weight of the composition and with particle sizes milled to less than about 75 microns equivalent spherical diameter, the solid material lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid and lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates where a linear relation exists between stress amplitude and strain rate.

76. (new) The composition of claim 73, 74 or 75, the solid material comprising a preparation of a crystalline carbonate, a crystalline phosphate, a magnesium alumino silicate, a magnesium silicate, a metal oxide or a crystalline silicone dioxide.

77. (new) The composition of claim 73, 74 or 75, the solid material having an amorphous content of greater than about 85% by weight.

78. (new) The composition of any of claims 72 through 75, the solid material having a crystalline content of less than about 1% by weight.

79. (new) The composition of claim 72, 73 or 75, the solid material comprising a preparation of aluminosilicate.

80. (new) The composition of claim 79, the solid material having a cristobalite content of less than about 1% by weight.

81. (new) The composition of claim 79, the solid material comprising a preparation of milled naturally occurring aluminosilicate.

82. (new) The composition of any of claims 72 through 75, the solid material having particles of at least about 50% by weight of a Mohs hardness value of no greater than 6.

83. (new) The composition of any of claims 72 through 75, the solid material having particles with a non-symmetrical shape.

84. (new) The composition of claim 83, the solid material having particles with an aspect ratio of at least about 0.6.

85. (new) The composition of claim 83, the solid material having particles with uneven surface morphology.

86. (new) The composition of any of claims 72 through 75, the polymeric liquid including at least one recycled polymer.

87. (new) A finished polymer of the composition of any of claims 72 through 75.

88. (new) An article comprising the composition of any of claims 72 through 75.

89. (new) A method of lowering the viscosity of a polymeric liquid, the method comprising

(a) milling a viscosity modifier comprising a solid material to particle sizes less than about 75 microns equivalent spherical diameter, the solid material having an amorphous content of greater than about 93% by weight;

(b) dispersing and distributing throughout a polymeric liquid the viscosity modifier, the solid material being at a concentration of less than about 2% by weight of the composition, the solid material lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid.

90. (new) A method of lowering the viscosity of a polymeric liquid, the method comprising:

(a) milling a viscosity modifier comprising a solid material to particle sizes less than about 75 microns equivalent spherical diameter;

(b) providing a polymeric liquid selected from the group consisting of a thermoset polymeric liquid and a thermoplastic vulcanizate polymeric liquid; and

(c) dispersing and distributing throughout the polymeric liquid the viscosity modifier, the viscosity modifier being active in lowering the viscosity of the polymeric liquid, the solid material being at a concentration of less than about 2% by weight of the composition, the solid material lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid.

91. (new) The method of claim 89 or 90, the solid material lowering the viscosity of the polymeric liquid at stress amplitudes and strain rates where a linear relation exists between stress amplitude and strain rate.

92. (new) The method of claim 89 or 90, the solid material comprising a preparation of aluminosilicate.

93. (new) The method of claim 90, the preparation having an amorphous content of at least about 85% by weight.

94. (new) The method of claim 89 or 90 further comprising
altering at least one solid material characteristic selected from the group consisting of particle size, particle shape, particle surface morphology, weight percent concentration of the solid material, structure of the solid material and chemical composition of the solid material to selectively reduce the polymeric liquid viscosity at stress amplitudes and strain rates where a linear relation exists between stress amplitude and strain rate.

95. (new) The method of claim 89 or 90 further comprising
altering at least one solid material characteristic selected from the group consisting of particle size, particle shape, particle surface morphology, weight percent concentration of the solid material, structure of the solid material and chemical composition of the solid material to selectively reduce the polymeric liquid viscosity at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid.

96. (new) The method of claim 89 or 90 further comprising
altering at least one solid material characteristic selected from the group

consisting of particle size, particle shape, particle surface morphology, weight percent concentration of the solid material, structure of the solid material and chemical composition of the solid material to selectively alter the polymeric liquid viscosity at stress amplitudes and strain rates approaching and exceeding the critical stress value of the polymeric liquid such that dispersion and distribution of additives is improved.